

Intel® Pentium® 4 Processor

Featuring Intel® NetBurst™ Micro-architecture

FEATURES

BENEFITS

Hyper-Pipelined Technology

Doubles the pipeline depth to 20 stages, significantly increasing the Intel® Pentium® 4 processor's performance and frequency capability.

1.30 GHz to 2.00 GHz

Industry-leading clock speeds enable IT to optimize network performance and empower users with new applications.

400 MHz System Bus

3 times the transfer rate of the Intel® Pentium® III processor increases data throughput for all demanding applications.

Execution Trace Cache

Advanced L1 cache design stores encoded instructions and reduces latency in the main execution loop.

Streaming SIMD Extensions

144 new instructions accelerate video multimedia, 3D, imaging and encryption.

Rapid Execution Engine

Executes certain instructions at twice the core frequency for faster applications and less waiting.

256 KB, Level 2 Advanced Transfer Cache

Delivers a much higher data throughput channel between the Level 2 cache and the processor core.

Advanced Dynamic Execution

Wider view of instructions — 3 times wider than the Pentium III processor — allows the Pentium 4 processor to execute instructions in the optimal order.

Chipset Support

Power Users

Mainstream Users

Intel® 850 Chipset

Dual-channel RDRAM* memory enables power users to run the most demanding content creation and Internet-based applications.

Intel® 845 Chipset

Cost-effective SDRAM memory allows new system price points and deployment options for large business desktops.

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Advantages for Large Business

Performance

For User Productivity

- New-generation productivity, collaboration, e-Business and other software applications offer excellent productivity gains and require a powerful desktop.
- With superior multitasking capability, the Intel® Pentium® 4 processor can run multiple applications and background services without adversely affecting the user experience.
- Intel® NetBurst™ Micro-architecture delivers the power to run XML- and Java*-based applications faster.

Options

For IT Strategies

- Desktop encryption, data compression and other IT tools can be used to redistribute and optimize network loads, maximizing limited bandwidth.
- Background processing features such as virus scanning and encryption can be used to tighten security without slowing down the user.
- Advanced desktop management capabilities such as remote installation, interactive client assistance, group set-up and enterprise-wide remote management help to streamline IT administration tasks.

Enduring Value

For Best Investment

- With its selection of clock speeds and memory options, the Pentium 4 processor is affordable for mainstream users now.
- Reliable and easy to manage remotely, the Pentium 4 processor streamlines IT desktop support.
- Desktop headroom accommodates future software upgrades and applications, allowing IT to maximize service life and avoid the costs of premature replacement.
- The Pentium 4 processor and Intel® 845 chipset comprise the new stable platform for large-business desktops.

Intel Quality & Reliability

- Extensive R&D resources and a longstanding commitment to advancements in business computing have made Intel the leader in technology innovation.
- Intel devotes over 1,000 people and more than \$200 million a year to desktop validation, qualification and compatibility testing, strictly adhering to the most rigorous industry standards for reliability and stability.
- Intel's wide-ranging involvement with third-party vendors lets business customers choose from a myriad of innovative solutions based on Intel® Architecture.

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